

## BIOGRAPHICAL SKETCH

**NAME: Yong Joo Chung**

**POSITION TITLE: Toxicologist**

### EDUCATION/TRAINING

Institution	Degree	Year	Field of Study
Korea University, Seoul, South Korea	B.S.	1986	Food Science and Technology
Old Dominion University, Norfolk, VA	M.S	1991	Biochemistry and Chemistry
Virginia Tech, Blacksburg, VA	M.S.	1995	Food Science and Technology
Michigan State University, East Lansing, MI	Ph.D.	2002	Food Science. & Human Nutr., Environmental Toxicology (Dual Majors)

### PROFESSIONAL EXPERIENCE:

- US Environmental Protection Agency, Research Triangle Park, North Carolina  
Postdoctoral Fellow Immunotoxicology 2005 – present
- University of North Carolina, Environmental Sciences and Engineering, Chapel Hill, NC  
Postdoctoral Trainee Immunotoxicology 2002 - 2005

### PROFESSIONAL SOCIETIES:

- The Society of Toxicology (2002 – present)
- North Carolina Chapter of the Society of Toxicology (2002 - present)
- Immunotoxicology Specialty Section of the Society of Toxicology (2003 - present)
- Food Safety Specialty Section of the Society of Toxicology (2003 - present)
- Korean Toxicologist Association in America – Special Interest Group of the Society of Toxicology (2006 – present)

### INVITED LECTURES/SYMPOSIA:

- Assessment of immune responses and Identification of allergens to *Penicillium chrysogenum*, Experimental Toxicology Division, NHEERL, USEPA, Research Triangle Park, NC, May 18, 2004
- Neurotrophin responses in a *Penicillium chrysogenum*-induced allergic asthma model, Pulmonary Visiting Scholar at Duke University, Durham, NC, March 2, 2005
- *Dose-dependent increase in the production of nerve growth factor, neurotrophin-3, and neurotrophin-4 in a Penicillium chrysogenum-induced allergic asthma model*, Platform presentation, Society of Toxicology, 44<sup>th</sup> Annual Meeting, New Orleans, LA, March 7, 2005

### ASSISTANCE/LEADERSHIP PROVIDED TO THE SCIENTIFIC COMMUNITY:

- Served as a treasurer in Korean Toxicologists Association in America at Special Interest Group of the Society of Toxicology (2006 - 2007)
- Serve as a vice-president in Korean Toxicologists Association in America at Special Interest Group of the Society of Toxicology (2007 - present)

### PUBLICATIONS:

- Chung, Y. 1991. High performance liquid chromatographic separation of Type IV collagen. MS thesis. Old Dominion University, Norfolk, VA.
- Chung, Y. 1995. Effect of papain and phospholipase on feathering defect in 11% homogenized UHT processed cream. MS thesis. Virginia Polytechnic Institute and State University, Blacksburg, VA.
- Yang, GH; Jarvis, BB; Chung, Y; Pestka, JJ. 2000. Apoptosis induction by the satratoxins and other trichothecene mycotoxins: relationship to ERK, p38 MAPK, and SAPK/JNK activation. *Toxicol Appl Pharmacol.*164:149-60.
- Chung, Y; Zhou, HR; Pestka, JJ. 2003. Transcriptional and posttranscriptional roles for p38 mitogen-activated protein kinase in upregulation of TNF-alpha expression by deoxynivalenol (vomitoxin). *Toxicol Appl Pharmacol.* 193: 188-201.
- Chung, Y; Jarvis, BB; Tak, HK; Pestka, JJ. 2003. Immunochemical assay for satratoxin G and other macrocyclic trichothecenes associated with indoor air contamination by *Stachybotrys chartarum*. *Toxicology Mechanisms and Methods.* 13: 1-7.
- Chung, Y; Jarvis, BB; Pestka, JJ. 2003. Modulation of lipopolysaccharide-induced proinflammatory cytokine production by satratoxins and other macrocyclic trichothecenes in the murine macrophage. *J Toxicol Environ Health A.* 66: 379-391.
- Chung, Y; Yang, GH; Islam, Z; Pestka, JJ. 2003. Up-regulation of macrophage inflammatory protein-2 and complement 3A receptor by trichothecenes deoxynevalenol and satratoxin G. *Toxicology* 186:51-65.
- Pestka, J; Zhou, HR; Moon, Y; Chung, Y; Islam, Z. 2004. Molecular mechanisms of trichothecene toxicity. New horizon of Mycotoxicology for Assuring Food Safety (*Proceeding of ISMYCO Kagawa* 2003) p17-31.
- Pestka, J; Zhou, HR; Moon, Y; Chung, Y. 2004. Cellular and molecular mechanisms for immune modulation by deoxynivalenol and other trichothecenes: unraveling a paradox. *Toxicol Lett.* 153(1): 61-73.
- Harkins, JM; Moustaid-Moussa, N; Chung, Y; Penner, KM; Pestka, JJ; North, CM; Claycombe, KJ. 2004. Expression of Interleukin-6 is Greater in Preadipocytes than in A dipocytes of 3T3-L1 cells and C57BL/6J and ob/ob Mice. *J Nutr* 134: 2673-2677.
- Chung, Y; Coates, NH; Viana, ME; Copeland, L; Vesper, SJ; Selgrade, MK; Ward, MDW. 2005. Dose-dependent allergic responses to an extract of *Penicillium chrysogenum* in Balb/c mice. *Toxicology* 209(1): 77-89.
- Donohue, M; Chung, Y; Magnuson, ML; Ward, M; Selgrade, MJ; Vesper, S. 2005. Hemolysin, Chrysolysin™ from *Penicillium chrysogenum* Promotes Inflammatory Response. *Int J Hyg Environ Health* 208(4): 279-285.

- Ward, M.D.W; Donohue, M.J; Chung, YJ; Copeland, L.B.; Shoemaker, J.A. and Vesper, S.J. 2007. The Identification of the Enzyme Catalase as an IgE-Inducing Protein Produced by the Fungal Biopesticide *Metarhizium anisopliae*. (In preparation)
- Chung, Y; Farraj, A; Haykal Coates, N; Gavett, SH; Ward, MDW. 2007. Increased Neurotrophin Production in a *Penicillium chrysogenum*-induced Allergic Asthma Model in Mice. *J Toxicol Environ Health A* 70(12): 1020-1026.

**BOOK CHAPTERS:**

- Ward, MDW; Viana, ME; Chung, Y; Haykal-Coates, N; Copeland, LB; Gavett, SH; Selgrade, MK. 2005. Assessing the allergic potential of indoor air fungal contaminants. In: *Bioaerosols, Fungi, Bacteria, Mycotoxins and Human Health: Patho-physiology, Clinical Effects, Exposure Assessment, Prevention and Control in Indoor Environments and Work (2005)*. Ed: Eckardt Johanning. Proceedings of the 5th International Bioaerosol Conference, Saratoga Springs, NY, USA, September 9-12, 2003.
- Ward, MDW; Chung, Y; Selgrade MK, 2004. Toxicology associated with respiratory exposures to fungi (molds). In: *Inhalation Toxicology (2<sup>nd</sup> edition)* Harry Salem and Sidney A. Katz, Editors, Marcel Dekker, NY